

# INDEX

S.No.	Program Name	Date	Marks	Signature	Remarks
1.	Write a program to find whether a number is prime or not.	18-03-2021	15		
2.	Write a program to take name, address as character string, age as int, salary as float and contains inline function to set the values and display it.	18-03-2021	15		
3.	Using the concept of function overloading, write function for calculating area of triangle, circle and rectangle.	18-03-2021	15		
4.	Create a class Student, which have data members as name, branch, roll no., age, sex, five subjects. Display the name of student & his percentage who has more than 70%.	18-03-2021	15		
5.	Write a program for multiplication of two matrices using OOP.	18-03-2021	15		
6.	To create a class TIME with members hours, minutes and seconds. Take input, add two-time objects and passing objects to function and display the result.	25-03-2021			
7.	To create a function power to raise a number m to a power n. The function takes double value for m and integer value for n. Use default value for n to make the function. Calculate the squares when this argument is omitted.	25-03-2021			
8.	Write a program to find the greatest of two given numbers in two different classes using friend function.	08-04-2021			
9.	Write a program to find the biggest of three number using Friend Function.	08-04-2021			
10.	Write a program to find the sum of two numbers declared in a class and display the numbers and sum using friend class.	08-04-2021			
11.	Write a program to demonstrate the use of friend function with Inline assignment.	08-04-2021			
12.	Write a program to perform addition of two complex numbers using constructor overloading. The first constructor which takes no argument is used to create objects which are not initialized, second which takes one argument is used to initialize real and imag parts to equal values and third	15-04-2021			

	which takes two argument is used to initialized real and imag to two different values.				
13.	Write a program to enter any number and find its factorial using constructor.	15-04-2021			
14.	Write a program to generate a Fibonacci series using Copy Constructor.	15-04-2021			
15.	Write a program to demonstrate the use of special functions, constructor and destructor in the class template. The program is used to find the bigger of two entered numbers.	22-04-2021			
16.	Create a base class basic_info with data members name, roll no, sex and two member functions getdata and display. Derive a class physical_fit from basic_info which has data members height and weight and member functions getdata and display. Display all the information using object of derived class.	29-04-2021			
17.	Create class first with data members book no, book name and member function getdata and putdata. Create a class second with data members author name, publisher and members getdata and showdata. Derive a class third from first and second with data member no of pages and year of publication. Display all these information using array of objects of third class.	29-04-2021			
18.	Write a program to read the class object of student info such as name, age, sex, height and weight from the keyboard and to store them on a specified file using read () and write () functions. Again, the same file is opened for reading and displaying the contents of the file on the screen.	29-04-2021			
19.	Create a class called LIST with two pure virtual function store () and retrieve (). To store a value call store and to retrieve call retrieve function. Derive two classes stack and queue from it and override store and retrieve.	20-05-2021			
20.	Create a base class called SHAPE. Use this class to store two double type values. Derive two specific classes called TRIANGLE and RECTANGLE from the base class. Add to the base class, a member function getdata to initialize base class data members and another member function display to compute and display the area of figures. Make display a virtual function and redefine this function in the derived classes to suit their requirements. Using these three classes design a program that will accept driven of a TRIANGLE or	20-05-2021			

	RECTANGLE interactively and display the area.				
21.	Design three classes STUDENT, EXAM, and RESULT. The STUDENT class has data members such as roll no, name. Create a class EXAM by inheriting the STUDENT class. The EXAM class adds data members representing the marks scored in six subjects. Derive the RESULT from the EXAM class and has its own data members such as total marks. WAP to model this relationship.	20-05-2021			
22.	Implement a class string containing the following functions: a. Overload + operator to carry out the concatenation of strings. b. Overload = operator to carry out string copy. c. Overload <= operator to carry out the comparison of strings. d. Function to display the length of string. e. Function tolower() to convert upper case to lower case. f. Function toupper() to convert lower case letters to upper case.	27-05-2021			
23.	Write a program to overload new and delete operator.	27-05-2021			
24.	Write a program to overload unary increment (++) operator.	27-05-2021			
25.	Write a program to raise an exception if any attempt is made to refer to an element whose index is beyond the array size.	03-06-2021			
26.	Write a program to read two numbers and then divide first no by second no and raise an exception if second number is zero.	03-06-2021			
27.	Write a program to perform the deletion of white spaces such as horizontal tab, vertical tab, space, line feed, new line and carriage return from a text file and store the contents of the file without the white spaces on another file.	03-06-2021			
28.	Write a program to define the function template for calculating the square of given numbers with different data types.	03-06-2021			
29.	Write a program to define the function template for swapping two items of various datatypes such as integers, float and characters.	10-06-2021			
30.	Write a program to illustrate how Template function can be overloaded.	10-06-2021			

31.	Write a program to illustrate how to define and declare a class template for reading two data items from the keyboard and to find their sum.	10-06-2021			
32.	Write a program to read a set of lines from the keyboard and to store it on a specified file.	10-06-2021			
33.	Write a program to read a text file and display its contents on the screen.	10-06-2021			
34.	Write a program to copy the contents of a file into another.	10-06-2021			